



Wireless laser mouse

M-NE5DL Series

User's Manual

Thank you for purchasing the ELECOM M-NE5DL Series wireless laser mouse.

This manual describes the operating instructions and safety precautions for using the M-NE5DL Series. Ensure that you have read this manual before using the product. After reading this manual, store it somewhere safe for future reference.

* Except in certain cases, the M-NE5DL Series is referred to as "this product" in this manual.

■ Meaning of symbols

	DANGER	Not following the cautions described here poses a high degree of danger which may result in death or serious bodily injury from fire or electric shock.
	WARNING	Failure to observe precautions may result in serious personal injury or death due to fire, electric shock, or other causes.
	CAUTION	Failure to observe precautions may result in personal injury due to electric shock or other causes, and may damage other equipment.

- Prohibited action
- Mandatory action
- Situation that needs attention
- Notes and reference information

Safety Precautions

Observe these precautions carefully to avoid personal injury, damage, fire, and other problems.

DANGER
Always use the charging cable supplied by ELECOM, and follow the charging procedure as instructed. Charging using a cable or procedure other than instructed can lead to battery overheating, leaking, or explosion.
Do not tamper with or attempt to take apart the product. This may result in fire or electric shock.
Do not use this product if it is leaking. If the internal battery is leaking, immediately stop use of the product. This can pose a risk of overheating and/or damage.
Immediately stop use of the product if you notice any abnormal operation. Do not use this product if you notice a leaking battery, odd colour changes, warping, or any other abnormalities. Continuing to use the product under these conditions may result in overheating or explosion.
If liquid substance from this product comes into contact with any part of your body or clothing, immediately flush and wash the contacted area with clean water. Contact between your skin and any liquid inside the internal battery may result in skin damage.
In the case that liquid from the internal battery enters your eyes, do not rub, as this may cause loss of vision. Immediately flush the contacted area with clean water and seek treatment from a physician as soon as possible.
Do not plug in/unplug this product with wet hands. This may result in electric shock or injury.
Only use this product at the specified rated voltage. Using this product outside of the specified rated voltage range may result in overheating, electric shock, or injury.

WARNING
If a foreign object (water, metal chip, etc.) enters the product, immediately stop using the product and disconnect the receiver unit from the PC, and remove the battery from the mouse. If you continue to use the product under these conditions, it may cause a fire or electric shock.
If an abnormality is found with this product (emission of heat, smoke or abnormal smell from the product), immediately stop using the product, shutdown the PC, and after thoroughly checking that heat from the product will not cause burns, disconnect the receiver unit from the PC. After doing this, contact the retailer from whom you purchased the product.
Do not drop or hit this product. If this product is damaged, immediately stop using the product and disconnect the receiver unit from the PC. If you continue to use the product under these conditions, it may cause a fire or electric shock.
Do not attempt to disassemble, modify or repair this product by yourself, as this may cause a fire, electric shock or product damage.
Do not put this product in fire, as the product may burst, resulting in a fire or injury.
Do not connect or disconnect the receiver unit with a wet hand, modify the receiver unit or bend it forcibly, as this may cause a fire or electric shock.
The receiver unit contains small parts that could be swallowed by a child. Ensure that the unit is stored in an area where it is not accessible to children.

CAUTION
Do not place this product in any of the following environments: <ul style="list-style-type: none"> In a car exposed to sunlight, a place exposed to direct sunlight, or a place that becomes hot (around a heater, etc.) In a moist place or a place where condensation may occur In an uneven place or a place exposed to vibration In a place where a magnetic field is generated (near a magnet, etc.) In a dusty place
This product does not have a waterproof structure. Use and store this product in a place where the product body will not be splashed with water or other liquid. Rain, water mist, juice, coffee, steam or sweat may also cause product damage.
<ul style="list-style-type: none"> If this product is malfunctioning, do not use it with any equipment which has an important function or could cause a serious negative influence. When you no longer need to use this product and the battery, be sure to dispose of it in accordance with the local ordinances and laws of your area.

■ Cleaning the Mouse

If the product body becomes dirty, wipe it with a soft, dry cloth.

Use of a volatile liquid (paint thinner, benzene, alcohol, etc.) may affect the material quality and colour of the product.

Cautions for Wireless Equipment

This product is wireless equipment using the entire range of the 2.4 GHz band and it is possible to avoid the band of mobile object identification systems. GFSK is used for the radio wave method. The interference distance is 10 m.
The 2.4 GHz band is also used by medical equipment, Bluetooth, and wireless LAN equipment conforming to the IEEE802.11b/11g/11n standard.

- Before using this product, check that there are no other "radio stations" operating nearby.
- If electromagnetic interference occurs between this product and other "radio stations", move this product to another location or stop using this product.

* Other "radio stations" refer to industrial, scientific and medical devices using the 2.4 GHz band like this product, other radio stations of this type, licensed radio station premises for mobile object identification system that is used in factory production lines, certain non-licensed low power radio stations and amateur radio stations.

WARNING
<ul style="list-style-type: none"> Do not use this product with a device that may have a serious function or influence. There are rare cases where an external radio wave at the same frequency or the radio wave emitted from a mobile phone causes this product to malfunction, slow down, or fail to operate. Do not use this product in a hospital or other locations where the use of radio waves is prohibited. The radio waves of this product may affect electronic and medical devices (e.g. pacemaker). The use of a wireless mouse in an aircraft is prohibited by aviation law because doing so may interfere with flight safety. Turn off the power of the mouse body before boarding an aircraft and do not use it in the aircraft.
* ELECOM is not liable for any accident or social damages incurred by the failure of this product.

Cautions for Laser Mouse

Though this product complies with the IEC60825-1 Class 1 laser safety standard to ensure safety, pay special attention to the following before use.

- Never observe the laser beam by using an optical measure such as a microscope or magnifier or view the laser with the naked eye for a long period of time. Doing so may have an adverse effect on the eye. (Some laser beams cannot be seen with the naked eye.)
- Never aim the rear surface of the mouse at a person's eyes, as this is very dangerous.
- The laser sensor may not work on glass or mirrored surfaces.
- Do not use this product for any application other than as a PC mouse.
- If this product is subjected to temperatures beyond its specifications, turn off the PC, and do not use the product until the temperature returns to the operable range.
- If this product is not operating normally, turn off the PC.

CLASS 1
LASER PRODUCT

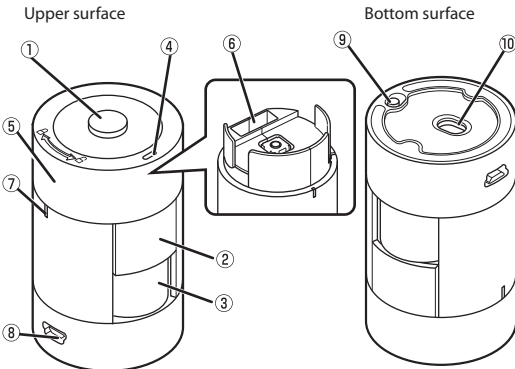
Package Contents

This product's packaging contains the items listed below. Before using the product, check that all items are present. We make every effort to ensure that all products are packaged correctly. However, in the event that an item is missing or damaged, contact the retailer from whom you purchased the product.

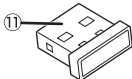
- Mouse x1
- Receiver unit x1
- Charging cable (USB A <-> micro-B, 0.7m) x1
- User's Manual x1

Part Names

■ Mouse



■ Receiver unit



①Right button
Used for right-click operation.
②Left button
Used for left-click operation.
③Wheel
The wheel can be turned back and forward with your finger or pressed like a button to operate the PC.
④Charging/Remaining battery level indicator lamp
When the internal battery level is low, the lamp flashes green. When the battery is charging the lamp flashes green. When charging is completed and the battery is charged to a sufficient level, the lamp turns off.
⑤Receiver Unit Cover
Remove this cover and insert the receiver unit.
⑥Receiver unit housing
Used to store the receiver unit.
⑦Cover open/close mark
Indicates the open/close point and lock of the Receiver Unit Cover.
⑧Charging connector
Connect using the included USB charging cable to charge the internal battery from a PC USB port.
⑨Power switch
Used to turn the mouse body on and off.
⑩Laser sensor
When the mouse body is moved, this sensor detects mouse movement. * Avoid looking directly at the light of the sensor as doing so may cause eye damage. Some laser beams cannot be seen with the naked eye.
⑪USB connector (Male)
Connected to a PC USB port.

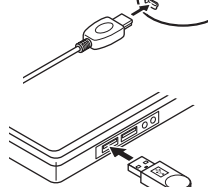
Preparation before Use

Charging the mouse

It is necessary to charge the mouse before using for the first time, or if you have not used it for an extended period of time. Use the included USB charging cable to charge the mouse.

- Requires approx. 3.5 hours to complete charging. If the charging lamp has not turned off after more than 3.5 hours, disconnect the USB charging cable once and stop charging. Continuing to charge beyond 3.5 hours may cause the battery life to shorten, or damage the product.
* Always charge the product with the power switch turned ON.

- Connect the included USB charging cable (micro-B connector) to the connector on the mouse.



- Connect the included USB charging cable (A connector) to the USB port of the PC.

- Confirm that the connector is oriented properly and connected to the correct port.

- Turn on the PC.
The Charging/Remaining battery level indicator lamp lights green, and charging begins. When charging is complete, the lamp turns off.

- If the battery is still not charged after the necessary amount of time has passed, stop charging immediately. Continuing to charge may result in leakage, overheating, explosion or fire.

Turning On and Off the Mouse

■ Turning on the mouse

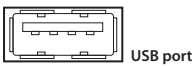
When using this product, turn the mouse body power on. Slide the power switch to the ON position. The remaining battery level indicator lamp is illuminated in green for a certain period.

* When the remaining battery level is low, the remaining battery level indicator lamp is flashed in green for a certain period.

When using Windows®

Step1 Check USB ports

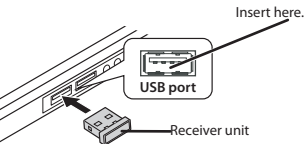
Check the USB port on your computer.



- Any USB port may be used.
- This product can be connected to a USB hub. However, it may not work depending on the power supply capability of the USB hub.

Step2 Installing the Receiver Unit

- Activate the PC.
 - If Windows® prompts you to choose an account (a user name) when it starts up, be sure to log on using an administrator account.
 - Wait until Windows® has started up completely.
- Insert the receiver unit into the USB port of the PC.



- Carefully check the orientation of the connector and the place where you will connect the receiver unit.
- If you feel strong resistance when inserting the receiver unit, check that the shape and orientation of the connector is correct. Using excessive force may damage the connector and cause injury.

- The mouse driver is installed automatically.

■ Turning off the mouse

When not using this product, turn the mouse body off to save battery power.
Slide the power switch to the OFF position.



■ Restoring from sleep state

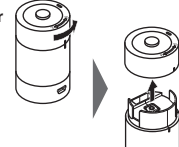
Click the right mouse button.

- To reduce battery drain, the mouse enters sleep mode automatically if it is left without being operated for a certain period of time with the power or switch turned on.

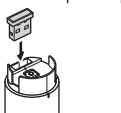
Inserting and Taking Out the Receiver Unit

■ Inserting the receiver unit

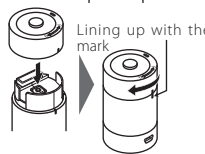
- Turn the Receiver Unit Cover counter clockwise and remove.



- Place the receiver unit into the receiver unit housing.



- Affix the Receiver Unit Cover back to its original position and turn clockwise to line up with the mark.



■ Taking out the receiver unit

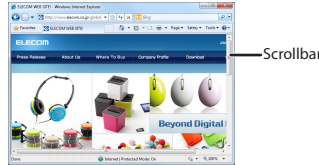
- Turn the Receiver Unit Cover counter clockwise and remove.
- Take the receiver unit out of the receiver unit housing.
- Affix the Receiver Unit Cover back to its original position and turn clockwise to line up with the mark.

Step3 Checking wheel operation

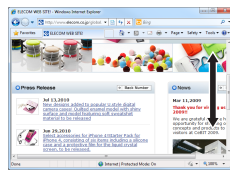
Check that the mouse vertical scrolling functions are working correctly in Windows® Internet Explorer.

- From the [Start] menu, select [All Programs], and then [Internet Explorer].
Internet Explorer will launch.
- Display your favourite web site in Internet Explorer and change the size of the window so that the vertical scrollbar appears.

* The sample website used here is the ELECOM homepage.



- Scroll the tilt wheel back and forth.



The mouse is operating normally if the screen moves up and down as you scroll the tilt wheel.



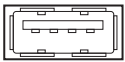
- In applications that do not support scrolling, the screen will not move when you scroll the tilt wheel.

- Up and down scrolling operation in MAC OS X 10.7 works in reverse from typical models. This can be changed in the mouse settings screen.

When using Mac OS X

Step1 Check USB ports

Check the USB port on your computer.



USB port



- Any USB port may be used.
- This product can be connected to a USB hub. However, it may not work depending on the power supply capability of the USB hub.

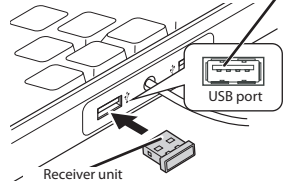
Step2 Installing the Receiver Unit

1 Activate the Macintosh.

- Wait until Mac OS X has started up completely.

2 Insert the receiver unit into a USB port on your Macintosh.

Insert here.



Receiver unit



- Carefully check the orientation of the connector and the place where you will connect the receiver unit.
- If you feel strong resistance when inserting the receiver unit, check that the shape and orientation of the connector is correct. Using excessive force may damage the connector and cause injury.

3 The mouse driver is installed automatically.

Step3 Checking operation

Check that the mouse vertical scrolling functions are working correctly in Safari.

1 Click the Safari icon in the Dock.

Safari will launch.

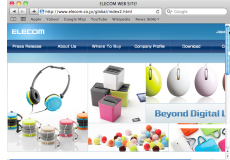


- If Safari is not in the Dock, double-click the Safari icon in the Applications folder.



2 Display your favourite web site in Safari and change the size of the window so that the vertical scrollbar appears.

*The sample website used here is the ELECOM homepage.



Scrollbar

3 Scroll the wheel back and forth.



The mouse is operating normally if the screen moves up and down as you scroll the wheel.



In applications that do not support scrolling, the screen will not move when you scroll the wheel.



Up and down scrolling operation in MAC OS X 10.7 works in reverse from typical models. This can be changed in the mouse settings screen.

Troubleshooting

When the product appears to be malfunctioning

■ When the mouse pointer on the screen does not move, or moves unstably, when the mouse is moved

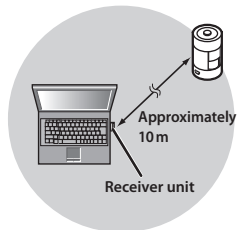
→ It is possible that the reflectivity of the surface on which this product is being used is not suitable for a laser mouse. Use this product on a mouse pad that is designed for use with laser mice.

→ When using this product on a metallic surface such as a steel desk, radio wave outreach may be shortened. In such cases, move the receiver unit closer to the mouse until mouse operation stabilises.

→ It is possible that the receiver unit is not connected correctly to the USB port. Disconnect the receiver unit from the USB port and reconnect it.

→ The receiver unit and the mouse body are too far apart or there is a possibility that the receiver unit is facing in a direction from which it cannot receive radio signals.

Adjust the position of the receiver unit. The operable range of this product is the area within a circle with a radius of 10 m from the receiver unit. Depending on the usage environment, the mouse may not operate even when it is within approximately 10 m of the receiver unit. In such cases, move the mouse closer to the receiver unit until operation stabilises.



Approximately 10 m

Receiver unit

→ Interference may occur if multiple units of this product are used together or if this product is used with other wireless devices. In this case, change the channel of other wireless devices. (Multiple units of this product have an automatic channel avoidance function.)

→ If battery level becomes low, mouse operation may become unstable. Refer to "Charging the mouse" on front page opposite to charge the battery.

- If battery level becomes low, the Charging/Remaining battery level indicator lamp begins flashing green.

* When not using the mouse, turn it off to save battery power.

→ It is possible that the standard Windows mouse driver did not install correctly and that this product is detected as an unknown device by Windows*. This product is usually detected as a USB human interface device. If it is detected as an unknown device, see "Removing an unknown device," and after removing the device from Device Manager, repeat "Step 2 - Installing the Receiver Unit" on the front of this sheet.

→ If you have installed drivers and settings utilities produced by the original manufacturer for a previous mouse, uninstall them first. This product may not operate correctly if a driver made by another company is installed. See the instruction manual that was supplied with your previous mouse for uninstall instructions.

→ It is possible that the driver is conflicting with another driver such as that for a laptop touch pad. To use this product correctly, you must delete the touch pad driver. However, if you delete this driver, you may not be able to use the touch pad or touch pad functions. Contact the PC manufacturer for more details.

■ The wheel moves, but the mouse cursor does not

→ In certain applications that do not support the scrolling function, the mouse cursor will not move when you move the wheel.

Removing an unknown device

If the standard Windows mouse driver did not install correctly and this product is detected as an unknown device, remove the unknown device from Device Manager, and then repeat "Step 2 - Installing the Receiver Unit" on the front of this sheet.



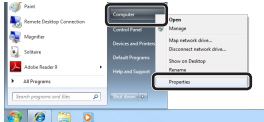
- If there are multiple unknown devices, before removing a device, check that it is actually this product. Disconnect the receiver unit and check which unknown device disappears. The device that disappears is this product.
- If the unknown device does not disappear even after you have deleted the driver following the instructions below, it is possible that there is something wrong with the PC. Contact the PC manufacturer.



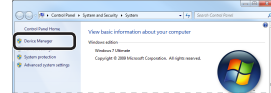
With the product connected to the PC, follow the procedure below to remove the unknown device.
* Be sure to log on using an administrator account when Windows starts up.
* Screen display may differ depending on operating system, but the procedure remains the same.

1 Display Device Manager.

- Windows® 7 and Windows Vista®
 - From the [Start] menu, right-click [Computer].
 - Click [Properties].

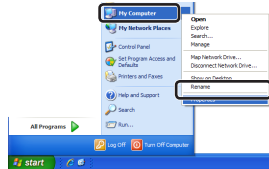


3. Click [Device Manager].



• Windows® XP

- From the [Start] menu, right-click [My Computer].
- Click [Properties].

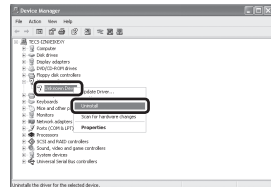


3. Click the [Hardware] tab.

4. Click [Device Manager].



2 The Device Manager window appears. Right-click the unknown device, and click [Uninstall].



3 Click [OK].



4 Disconnect the receiver unit and restart the PC.



5 Repeat the procedure from "Step 2 - Installing the Receiver Unit" on the front of this sheet.

Internal battery troubleshooting

■ Charging lamp does not turn on when charging.

- Start up the PC if it is not turned on.
- If the PC is in stand-by mode, take it out of stand-by.
- The PC USB port may not output a sufficient amount of power for charging. Try disconnecting the product from the USB port that it is connected to.

■ Charging takes longer than the specified charging time.

- If the temperature is too high or too low when charging, charging may not perform correctly. Charge in an environment between 5 and 40°C.

■ Internal battery only lasts a short time

- If the internal battery can only be used for a short time even when fully charged, this is the condition of the battery life.

Basic specifications

Product name	Wireless laser mouse
Article No.	M-NESDL Series
OS	Windows 7 (Includes SP1), Windows Vista (up to SP2), Windows XP (SP3) Mac OS X 10.5 to 10.5.8, 10.6 to 10.6.8, 10.7 to 10.7.1
Resolution (dpi)	1200
Interface	USB
Radio frequency	2.4 GHz bandwidth
Radio wave method	GFSK modulation
Radio wave outreach	Non-magnetic substance (e.g. wooden desk): Approx. 10 m Magnetic substance (e.g. metal desk): Approx. 3 m * Test values in the ELECOM environment
Mouse body dimensions	32.5 (W) x 32.5 (D) x 53.0 (H) mm
Receiver Dimensions	15.0 (W) x 15.07.5 (D) x 6.0 (H) mm
Operating temperature/humidity	5 to 40°C, 90% RH max. (no condensation)
Storing temperature/humidity	-10 to 60°C, 90% RH max. (no condensation)
Types of batteries	Rechargeable Lithium-Ion battery (internal battery in this product)
Battery amount	120mAh
Charging time	Approx. 3.5 hours
Operating time	Approx. 1 week operation time (when fully charged)

产品中有毒有害物质或元素的名称及含量

根据中国《电子信息产品污染控制管理办法》



部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
电路板	○	○	○	○	○	○
外壳 其他	○	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T 11363-2006 标准规定的限量要求以下。

×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11363-2006 标准规定的限量要求。



Hereby, ELECOM Co., Ltd., declares that this product is in compliance with the essential requirements and other relevant provisions of Directive [2006/95/EC].



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M-NESDL Series

User's manual

1st edition, January 10, 2012

ELECOM Co., Ltd

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